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RAW SEQUENCE LISTING

DATE: 08/02/2001

PATENT APPLICATION: US/09/911,253

TIME: 14:08:37

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\08022001\I911253.raw

SEQUENCE LISTING

ENTERED

6 (1) GENERAL INFORMATION:

8 (i) APPLICANT: Virtanen, Jorma

10 (ii) TITLE OF INVENTION: Optical Disk-Based Assay Devices and

11 Methods

13 (iii) NUMBER OF SEQUENCES: 13

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Oppenheimer Wolff & Donnelly LLP

17 (B) STREET: 2029 Century Park East, Suite 3800

18 (C) CITY: Los Angeles

19 (D) STATE: California

20 (E) COUNTRY: USA

21 (F) ZIP: 90067

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy Disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: Microsoft Windows 98

27 (D) SOFTWARE: MS Word

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/911,253

C--> 31 (B) FILING DATE: 23-Jul-2001

32 (C) CLASSIFICATION: 435

34 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: 08/888,935

36 (B) FILING DATE: July 7, 1997

37 (A) APPLICATION NUMBER: 60/021,367

38 (B) FILING DATE: July 8, 1996

40 (viii) ATTORNEY/AGENT INFORMATION:

41 (A) NAME: Oldenkamp, David J.

42 (B) REGISTRATION NUMBER: 29,421

43 (C) REFERENCE/DOCKET NUMBER: 18950-18

45 (ix) TELECOMMUNICATION INFORMATION:

46 (A) TELEPHONE: (310) 788-5000

47 (B) TELEFAX: (310) 788-5100

49 (2) INFORMATION FOR SEQ ID NO: 1:

50 (i) SEQUENCE CHARACTERISTICS:

51 (A) LENGTH: 9

52 (B) TYPE: nucleic acid

53 (C) STRANDEDNESS: single-stranded DNA

54 (D) TOPOLOGY: linear

W--> 56 (ii) MOLECULE TYPE: oligonucleotide

C--> 58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

60 CGGGTGTGG

62 (2) INFORMATION FOR SEQ ID NO: 2:

63 (i) SEQUENCE CHARACTERISTICS:

64 (A) LENGTH: 9

65 (B) TYPE: nucleic acid

9

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66          (C) STRANDEDNESS: single-stranded DNA
67          (D) TOPOLOGY: linear
W--> 69      (ii) MOLECULE TYPE: oligonucleotide
C--> 71      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
73 CGGGTGTGA                                     9
75 (2) INFORMATION FOR SEQ ID NO: 3:
76      (i) SEQUENCE CHARACTERISTICS:
77          (A) LENGTH: 9
78          (B) TYPE: nucleic acid
79          (C) STRANDEDNESS: single-stranded DNA
80          (D) TOPOLOGY: linear
W--> 82      (ii) MOLECULE TYPE: oligonucleotide
C--> 84      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
86 CGGGTGTGC                                     9
88 (2) INFORMATION FOR SEQ ID NO: 4:
89      (i) SEQUENCE CHARACTERISTICS:
90          (A) LENGTH: 9
91          (B) TYPE: nucleic acid
92          (C) STRANDEDNESS: single-stranded DNA
93          (D) TOPOLOGY: linear
W--> 95      (ii) MOLECULE TYPE: oligonucleotide
C--> 97      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
99 CGGGTGTGT                                     9
101 (2) INFORMATION FOR SEQ ID NO: 5:
102      (i) SEQUENCE CHARACTERISTICS:
103          (A) LENGTH: 9
104          (B) TYPE: nucleic acid
105          (C) STRANDEDNESS: single-stranded DNA
106          (D) TOPOLOGY: linear
W--> 108     (ii) MOLECULE TYPE: oligonucleotide
C--> 110     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
112 CGGCCGCGG                                     9
115 (2) INFORMATION FOR SEQ ID NO: 6:
116      (i) SEQUENCE CHARACTERISTICS:
117          (A) LENGTH: 18
118          (B) TYPE: nucleic acid
119          (C) STRANDEDNESS: single-stranded DNA
120          (D) TOPOLOGY: linear
W--> 122     (ii) MOLECULE TYPE: oligonucleotide
C--> 124     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
126 GCCCACACCG CCGGCGCC                         18
128 (2) INFORMATION FOR SEQ ID NO: 7:
129      (i) SEQUENCE CHARACTERISTICS:
130          (A) LENGTH: 18
131          (B) TYPE: nucleic acid
132          (C) STRANDEDNESS: single-stranded DNA
133          (D) TOPOLOGY: linear
W--> 135     (ii) MOLECULE TYPE: oligonucleotide
C--> 137     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

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139 GCCCACA CTG CCGGCGCC 18
141 (2) INFORMATION FOR SEQ ID NO: 8:
142 (i) SEQUENCE CHARACTERISTICS:
143 (A) LENGTH: 18
144 (B) TYPE: nucleic acid
145 (C) STRANDEDNESS: single-stranded DNA
146 (D) TOPOLOGY: linear
W--> 148 (ii) MOLECULE TYPE: oligonucleotide
C--> 150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
152 GCCCACA CGG CCGGCGCC 18
154 (2) INFORMATION FOR SEQ ID NO: 9:
155 (i) SEQUENCE CHARACTERISTICS:
156 (A) LENGTH: 16
157 (B) TYPE: nucleic acid
158 (C) STRANDEDNESS: single-stranded DNA
159 (D) TOPOLOGY: linear
W--> 161 (ii) MOLECULE TYPE: oligonucleotide
C--> 163 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
165 GCCCACA GCC GCGCC 16
167 (2) INFORMATION FOR SEQ ID NO: 10:
168 (i) SEQUENCE CHARACTERISTICS:
169 (A) LENGTH: 33
170 (B) TYPE: nucleic acid
171 (C) STRANDEDNESS: single-stranded DNA
172 (D) TOPOLOGY: linear
W--> 174 (ii) MOLECULE TYPE: oligonucleotide
C--> 176 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
178 TGAGACACCA GGAATTAGAT ATCAGTACAA TGT 33
180 (2) INFORMATION FOR SEQ ID NO: 11:
181 (i) SEQUENCE CHARACTERISTICS:
182 (A) LENGTH: 33
183 (B) TYPE: nucleic acid
184 (C) STRANDEDNESS: single-stranded DNA
185 (D) TOPOLOGY: linear
W--> 187 (ii) MOLECULE TYPE: oligonucleotide
C--> 189 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
191 CTAAATCAGA TCCTACATAT AAGTCATCCA TGT 33
193 (2) INFORMATION FOR SEQ ID NO: 12:
194 (i) SEQUENCE CHARACTERISTICS:
195 (A) LENGTH: 15
196 (B) TYPE: nucleic acid
197 (C) STRANDEDNESS: single-stranded DNA
198 (D) TOPOLOGY: linear
W--> 200 (ii) MOLECULE TYPE: oligonucleotide
C--> 202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
204 TAGATATCAG TACAA 15
206 (2) INFORMATION FOR SEQ ID NO: 13:
207 (i) SEQUENCE CHARACTERISTICS:
208 (A) LENGTH: 15

```

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209 (B) TYPE: nucleic acid
210 (C) STRANDEDNESS: single-stranded DNA
211 (D) TOPOLOGY: linear
W--> 213 (ii) MOLECULE TYPE: oligonucleotide
C--> 215 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
217 TATTCAGTAG GTACA

15

VERIFICATION SUMMARY

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Input Set : A:\PTO_VSK.txt

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L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:58 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:56 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:71 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:69 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:84 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:82 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:97 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:95 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:110 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:108 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:124 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:122 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:137 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:135 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:150 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:148 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:163 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:161 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:176 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:174 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10
L:189 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:187 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:202 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:200 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:215 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:213 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13